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(54) Electronic expansion valve

(57) The present invention provides an electronic expansion valve, comprising a leading screw (4), a valve needle (6) and a valve needle sleeve (6). It further comprises: a washer (7) provided in an annular groove, which is provided at the lower end of the leading screw (4) in the circumferential direction, and a thickness of the washer (7) is less than a width of the annular groove; the valve needle sleeve (6) abuts against the upper surface of the washer (7) and is fixedly connected with the valve needle (6); and a spring (8) is provided between the washer (7) and the valve needle (6). By arranging the washer (7) in the annular groove provided at the lower end of the leading screw (4) in the circumferential direction, with the thickness of the washer (7) being less than the width of the annular groove, and by arranging the spring (8) between the valve needle (6) and the washer (7), the washer (7) is enabled to rotate around the annular groove in the circumferential direction and move up and down in the annular groove, improving the reliability of the electronic expansion valve.

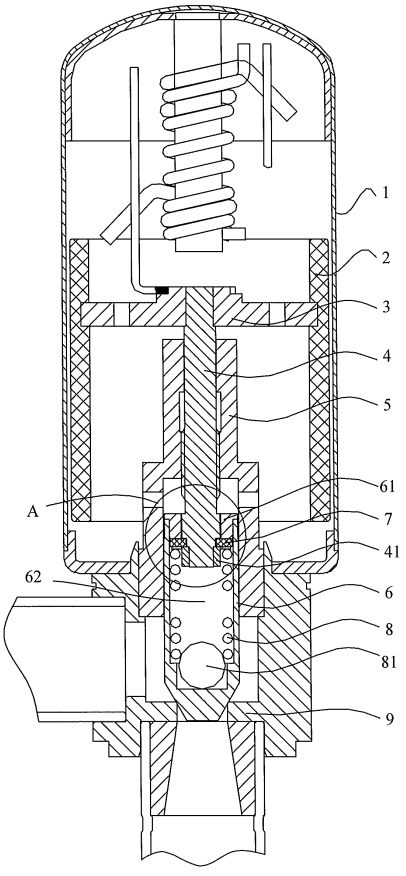


Fig.1

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EUROPEAN SEARCH REPORT

Application Number
EP 10 18 4249

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2006/064865 A1 (SAGINOMIYA SEISAKUSHO INC [JP]; TOMIOKA SOICHIRO [JP]; NAKANO SEIICHI) 22 June 2006 (2006-06-22) * abstract; figures 15-19 * -----	1-7	INV. F25B41/06
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			TECHNICAL FIELDS SEARCHED (IPC) F25B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	16 May 2011	Yousufi, Stefanie

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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16-05-2011

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